

Standards Actions— January 2002

Visit the Technical Standards
Program Web Site at
<http://tis.eh.doe.gov/techstds/>.

Standards Actions



DOE Technical Standards Program Document Status

12-21-2001

Activity Summary

In Conversion – 4

In Preparation – 41

Out for Comment – 17

Published this Month – 1



FY 2002 5-year Sunset

Review Status

Revision in Progress – 10

Reaffirmation in Progress – 8

Cancellation Pending – 5

Cancellation in Progress – 1

No Current Action – 23

DOE Technical Standards Project Initiated

If you have any questions or are interested in participating in the development of these standards, please contact the representative listed below. Complete listings of all DOE Technical Standards projects and their status are given on the Technical Standards Program (TSP) Web Site (<http://tis.eh.doe.gov/techstds/>). To access these lists from the home page, click on "DOE Technical Standards," then click on "Projects" in the left-hand frame to show the links to the project lists.

The following DOE Technical Standards projects were recently initiated:

- *Firearms Safety*, Project Number SAFT-0081, revision/update to DOE-STD-1091-96, Patrick Tran, U.S. Department of Energy, EH-53; 301-903-5638, Pat.Tran@eh.doe.gov.
- *Electrical Safety*, Project Number SAFT-0082, revision/update to DOE-STD-1092-98, Patrick Tran, U.S. Department of Energy, EH-53; 301-903-5638, Pat.Tran@eh.doe.gov.
- *Radiological Safety Training for Accelerator Facilities*, Project Number TRNG-0021, revision/update to DOE-HDBK-1108-97, Peter O'Connell, U.S. Department of Energy, EH-52; 301-903-5641, Fax 301-903-7773, Peter.O'Connell@eh.doe.gov.

DOE Technical Standards Recently Reaffirmed

The reaffirmation notification process for these standards has been completed in accordance with the Technical Standards Program Procedures. Please direct any questions or comments to Norm Schwartz, EH-53, 301-903-2996, Norm.Schwartz@eh.doe.gov.

The following DOE Technical Standards were recently reaffirmed.

- DOE-STD-1030-96, *Guide to Good Practices for Lockouts and Tagouts* (revision to DOE-STD-1030-95).
- DOE-STD-1031-92, *Guide to Good Practices for Communications*, including Change Notice 1, December 1998.
- DOE-STD-1032-92, *Guide to Good Practices for Operations Organization and Administration*, including Change Notice 1, December 1998.
- DOE-STD-1033-92, *Guide to Good Practices for Operations and Administration Updates Through Required Reading*, including Change Notice 1, December 1998.
- DOE-STD-1034-93, *Guide to Good Practices for Timely Orders to Operators*, including Change Notice 1, December 1998.
- DOE-STD-1035-93, *Guide to Good Practices for Logkeeping*, including Change Notice 1, December 1998.
- DOE-STD-1036-93, *Guide to Good Practices for Independent Verification*, including Change Notice 1, December 1998.

Inside this issue:

DOE Technical Standards Projects Initiated	1
DOE Technical Standards Recently Reaffirmed	1
DOE Technical Standards Recently Published	2
American National Standards Institute	2
American National Standards	3
American Society for Testing and Materials	3

(Continued on page 2)

(Continued from page 1)

- DOE-STD-1037-93, *Guide to Good Practices for Operations Aspects of Unique Processes*, including Change Notice 1, December 1998.
- DOE-STD-1038-93, *Guide to Good Practices for Operations Turnover*, including Change Notice 1, December 1998.
- DOE-STD-1039-93, *Guide to Good Practices for Control Area Activities*, including Change Notice 1, December 1998.
- DOE-STD-1040-93, *Guide to Good Practices for Control of On-Shift Training*, including Change Notice 1, December 1998.
- DOE-STD-1041-93, *Guide to Good Practices for Shift Routines and Operating Practices*, including Change Notice 1, December 1998.
- DOE-STD-1042-93, *Guide to Good Practices for Control Area Activities*, including Change Notice 1, December 1998.
- DOE-STD-1043-93, *Guide to Good Practices for Operator Aid Postings*, including Change Notice 1, December 1998.
- DOE-STD-1044-93, *Guide to Good Practices for Equipment and Piping Labeling*, including Change Notice 1, December 1998.
- DOE-STD-1045-93, *Guide to Good Practices for Notifications and Investigation of Abnormal Events*, including Change Notice 1, December 1998.

The reaffirmation notification process for the standards below has been completed in accordance with the Technical Standards Program Procedures. Please direct any questions or comments on these two standards to John Yoder, EH-53, 301-903-5650, John.Yoder@eh.doe.gov.

- DOE-HDBK-1074-95, *Alternative Systematic Approaches to Training*.
- DOE-HDBK-1086-95, *Table-Top Training Program Design*, reaffirmed with errata.

DOE Technical Standards Recently Published

The following DOE Technical Standard was recently published and posted on the TSP Web Site:

- DOE-STD-1136-2000 (CH-3), *Guide of Good Practices for Occupational Radiological Protection in Uranium Facilities*.

DOE employees and DOE contractors may obtain copies from the ES&H Technical Information Services, U.S. Department of Energy; 1-800-473-4375, Fax 301-903-9823.

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; 703-605-6000, Fax 703-605-6900.

Non-Government Standards

American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Recent electronic copies (no hardcopies are produced) are available on the ANSI Web site at http://web.ansi.org/rooms/room_14/. Electronic back copies are available to ANSI members only. For information on site membership, ask your local ANSI contact. For information on individual or group ANSI membership, contact Susan Bose at 212-642-4948 or sbose@ansi.org.

Hardcopy versions of published non-Government standards listed in this section may be obtained from Global Engineering Documents, 15 Inverness Way East, Englewood, Colorado, 80112, 800-854-7179, Fax 303-397-2740, global@ihs.com, <http://global.ihs.com>. Electronic delivery of selected documents is available through ANSI at <http://webstore.ansi.org>. Copies of the listed draft standards and the procedure for commenting on them may be obtained by contacting the standards developing organization.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a more extensive listing of changes and new publications, standards developing organizations, and additional information about submitting comments. Additional information on ANSI activities and available non-Government standards can be found on the ANSI Web site, <http://www.ansi.org>, or through the National Standards System Network, <http://www.nssn.org>.

The following American National Standards are currently in coordination (comment due dates follow each entry):

- ACI 349, *Appendix B, Code Requirements for Nuclear Safety Related Concrete Structures, Appendix B, Anchoring to Concrete* (new standard) – January 28, 2002.
- ACI 350/350R, *Code Requirements for Environmental Engineering Concrete Structures and Commentary* (new standard) – January 28, 2002.
- ACI 350.1/350.1R, *Tightness Testing of Environmental Engineering Concrete Structures and Commentary* (new standard) – January 28, 2002.
- ASME RA-S-20XX, *Probabilistic Risk Assessment for Nuclear Power Plant Applications* (new standard) – January 28, 2002.

(Continued on page 3)

(Continued from page 2)

- ASTM F1002, *Performance Specification for Protective Clothing for Use by Workers Exposed to Specific Molten Substances and Related Thermal Hazards* (reaffirmation of ANSI/ASTM F1002) – January 28, 2002.
- UL 783, *Electric Flashlights and Lanterns for Use in Hazardous (Classified) Locations* (revision of ANSI/UL 783-1993) – January 28, 2002.

The following American National Standards have been approved for publication (Publication is to take place within six months following the date shown. Publication status and ordering information may be obtained from ANSI's Customer Service at 212-642-4900.):

- ANSI/ISO/IEC 10373-6:2001, *Identification Cards – Test Methods – Part 6: Proximity Cards* (new national adoption) – November 20, 2001.
- ANSI/ISO/IEC 10373-7:2001, *Identification Cards – Test Methods – Part 7: Vicinity Cards* (new national adoption) – November 20, 2001.

The following international standards are currently in coordination (comment due dates follow each entry):

- EN 286-1: 1998/prA1, *Simple unfired pressure vessels designed to contain air or nitrogen – Part 1: Pressure vessels for general purposes* – February 8, 2002.
- prEN 1028-1, *Fire-fighting pumps – Fire-fighting centrifugal pumps with primer – Part 1: Classification – General and safety requirements* – for information only.
- prEN 1028-2, *Fire-fighting pumps – Fire-fighting centrifugal pumps with primer – Part 2: Verification of general and safety requirements* – for information only.
- prEN 1947, *Fire-fighting hoses – Semi-rigid delivery hoses and hose assemblies for pumps and vehicles* – for information only.

The following newly published international standards are available:

- IEC 60695-10-2 Ed. 1.1 b:2001, *Fire hazard testing – Part 10-2: Guidance and test methods for the minimization of the effects of abnormal heat on electrotechnical products involved in fires – Method for testing products made from non-metallic materials for resistance to heat using the ball pressure test*.
- ISO 3059:2001, *Non-destructive testing – Penetrant testing and magnetic particle testing – Viewing conditions*.
- ISO 14015:2001, *Environmental management – Environmental assessment of sites and organizations (EASO)*.

American National Standards Projects Initiated

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities should contact the appropriate standards developing organization. DOE-TSL-4 lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPO for information on participating in NGS activities.

Institute of Electrical and Electronics Engineers (IEEE)

Office: 445 Hoes Lane
P.O.Box 1331
Piscataway, NJ 08855-1331

Fax: 732-562-1571

Contact: Naeem Ahmad, n.ahmad@ieee.org

- ANSI/IEEE 4, *Standard for High Voltage Test Techniques* (revision of ANSI/IEEE 4-1995)

American Society for Testing and Materials

Standards activities of the American Society for Testing and Materials (ASTM) International are published monthly in *ASTM Standardization News*. Orders for subscriptions or single copies of *ASTM Standardization News* may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9691 (Fax 610-832-9667). ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585 (Fax 610-832-9555). Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical Committee Operations Division at 610-832-9672 (Fax 610-832-9666). Additional information on ASTM activities is available on the ASTM Web site (<http://www.astm.org>). The following listings are extracted from *ASTM Standardization News* and are representative of NGS development activities that may be relevant to DOE operations.

The following ASTM International standards are currently in coordination (the due date for all items is January 10, 2002):

- C 1022-93, *Test Methods for Chemical and Atomic Absorption Analysis of Uranium-Ore Concentrate* – (revised standard).
- C 1204-91(1996), *Test Method for Uranium in the Presence of Plutonium by Iron (II) Reduction in Phosphoric Acid Followed by Chromium (VI) Titration* – (revised standard).

(Continued on page 4)

(Continued from page 3)

- C 1206-91(1996), *Test Method for Plutonium by Iron (II)/Chromium (VI) Amperometric Titration* – (revised standard).
- C 1307-95 (includes change to title), *Test Method for Plutonium Assay by Plutonium (III) Diode Array Spectrophotometry* – (revised standard).
- C 1346-96, *Practice for Dissolution of UF₆ from P-10 Tubes* – (revised standard).
- C 1347-96A, *Practice for Preparation and Dissolution of Uranium Materials for Analysis* – (revised standard).
- D 3911-95 (includes change to title), *Test Method for Evaluating Coatings Used in Light-Water Nuclear Power Plants at Simulated Design Basis Accident (DBA) Conditions* – (revised standard).
- D 4082-95, *Test Method for Effects of Radiation on Coatings Used in Light-Water Nuclear Power Plants* – (revised standard).
- F 1002-96, *Performance Specification for Protective Clothing for Use by Workers Exposed to Specific Molten Substances and Related Thermal Hazards* – (revised standard).
- F 1731-96, *Practice for Body Measurements and Sizing of Fire and Rescue Services Uniforms and Other Thermal Hazard Protective Clothing* – (revised standard).
- New Standard, *Test Method for Measurement of ²³⁵U Fraction Using the Enrichment Meter Principle* (Ref. Z0074Z).
- New Standard, *Test Method for the Determination of Metallic Impurities in Uranium Metal or Compounds by DC-Arc Emission Spectroscopy* (Ref. Z8072Z).
- New Standard, *Guide for Preparing a Surveillance and Maintenance Plan for Shutdown Radiologically Contaminated Facilities* (Ref. Z8471Z).
- New Standard, *Test Method for Nondestructive Assay of Plutonium by Passive Neutron Multiplicity Counting* (Ref. Z8845Z).
- New Standard, *Guide for Transitioning Basic Sciences Into Commercial Technologies* (Ref. Z8898Z).
- New Standard, *Guide for Evaluating Disposal Options to Utilize Release Criteria for Concrete from Nuclear Facility Decommissioning* (Ref. Z9273Z).
- A 479/A 479M-01, *Specification for Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure* – (new standard).
- C 1502-01, *Test Method for Determination of Total Chlorine and Fluorine in Uranium Dioxide and Gadolinium Oxide* – (new standard).
- C 1507-01, *Test Method for Radiochemical Determination of Strontium-90 in Soil* – (new standard).
- C 1508-01, *Test Method for Determination of Bromine and Chlorine in UF* – (new standard).
- C 1052-01, *Practice for Bulk Sampling of Liquid Uranium Hexafluoride* – (revised standard).
- C 1310-01, *Test Method for Determining Radionuclides in Soils by Inductively Coupled Plasma-Mass Spectrometry Using Flow Injection Preconcentration* – (revised standard).
- C 1415-01a, *Test Method for ²³⁸Pu Isotopic Abundance by Alpha Spectrometry* – (revised standard).
- E 721-01, *Guide for Determining Neutron Energy Spectra from Neutron Sensors for Radiation-Hardness Testing of Electronics* – (new standard).
- E 853-01, *Practice for Analysis and Interpretation of Light-Water Reactor Surveillance Results, E706 (Ia)* – (revised standard).
- E 910-01, *Test Method for Application and Analysis of Helium Accumulation Fluence Monitors for Reactor Vessel Surveillance, E706 (Iiic)* – (revised standard).
- E 2159-01, *Guide for Selection, Assignment, and Monitoring of Persons to Be Utilized as Assessors/Auditors or Technical Experts* – (new standard).

The following newly published standards are available from ASTM International:

- A 414/A 414M-01, *Specification for Steel, Sheet, Carbon, for Pressure Vessels* – (new standard).

Comments, Questions, and Addresses

Comments: If you have any questions or comments, please contact Rick Serbu, EH-53, Manager, DOE Technical Standards Program Office (TSPO), 301-903-2856, Fax 301-903-6172, Richard.Serbu@eh.doe.gov.

Addresses: *Standards Actions* and *The Standards Forum* are electronic newsletters available on the TSP Web Site (<http://tis.eh.doe.gov/techstds/>). To update your mailing and e-mail addresses, please contact Amy Bush, ORNL, 865-576-2395, Fax 865-574-8481, bushar@ornl.gov.

Technical Standards Activities: The TSPO would like to be kept informed of the status of technical standards that are being prepared or coordinated for DOE. Please provide this information to the TSPO at 865-576-2395, bushar@ornl.gov.